YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Main Roads and 1st to 6th Cross Roads at Byrappa Garden in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

			Estimate Cost:					2500000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Byrappa Garden Main Road CC Drain		1	90.00	0.90	0.90	72.90		
	Cross Road		2	93.00	1.00	0.90	167.40		
	Byrappa Garden Main Road		1	60.00	4.30	0.15	38.70		
	KNE College 8th Cross		1	64.00	4.30	0.15	41.28		
	Basic Rate	82.00					**320.28**	199.36	**63853.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Byrappa Garden Main Road CC Drain		1	90.00	1.00	0.15	13.50		
	Cross Road		2	93.00	1.00	0.15	27.90		
	Byrappa Garden Main Road		1	60.00	4.50	0.15	40.50		
	KNE College 8th Cross		1	64.00	4.50	0.15	43.20		
	Basic Rate	4867.00					**125.10**	5159.02	**645393.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2016-17**	Cum							
	Bottom Concrete		1	90.00	0.90	0.15	12.15		
			2	93.00	0.90	0.15	25.11		
	Side Wall		2	90.00	0.15	0.60	16.20		
			4	93.00	0.15	0.60	33.48		
	Basic Rate	5879.00					**86.94**	6231.74	**541787.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**	Tonne							
	For Roof, Columns @ 60 Kg / Cum		0.06	86.94			**5.22**	64243.42	**335119.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	Side Wall		4	90.00		0.60	216.00		
			4x2	93.00		0.60	446.40		
	Byrappa Garden Main Road		2	60.00		0.30	36.00		
	KNE College 8th Cross		2	64.00		0.30	38.40		
	Basic Rate	293.00					**736.80**	310.58	**228835.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @**	Cum							
	Byrappa Garden Main Road		1	60.00	4.50	0.125	33.75		
	KNE College 8th Cross		1	64.00	4.50	0.125	36.00		
	Basic Rate	5197.00					**69.75**	5508.82	**384240.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
	Byrappa Garden Main Road		1	60.00	4.40		264.00		
	KNE College 8th Cross		1	64.00	4.40		281.60		
	Basic Rate	90.00					**545.60**	95.40	**52050.00**
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
	Sub Total								**2272396.00**
	KRIDL Charges @8%								**204516.00**
	Labour Cess @ 1%								**22724.00**
	Miscellaneous and other Charges	L/S							**364.00**
								Total	**2500000.00**
Rupees Twenty Five Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 POW 24.10% Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer 11/12
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
11/12

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty Five lakhs only
Head of A/c. P-1878
Div. Ref. No. 53/17-18 Date. 11/12/17
AE 11/12
EE(BTP) 11/12

Technical Sanction
Accorded For 25.00 lakh Rs
Head of A/C. P1878
CER NO 421 Dt. 11/12/17
TA CE (YNK)